

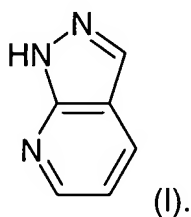
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-6. (Cancelled)

7. (New) A method of treating cognitive deficits in a patient having a neurodegenerative disease, the method comprising administering to the patient an effective amount of a compound of the pyrazolopyridine family.

8. (New) The method of claim 7, wherein the compound is a substituted or substituted compound of formula (I)



9. (New) The method of claim 8, wherein the compound is etazolate or tracazolate.

10. (New) The method of claim 7, wherein the compound is selected from the following compounds :

Ethylic ester of 4-butylamino-1-ethyl-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid (tracazolate),

Ethylic ester of 4-butylamino-1-ethyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid

1-(4-amino-pyrazolo[3,4-*b*]pyridin-1-yl)- β -*D*-1-deoxy-ribofuranose

Ethylic ester of 1-ethyl-4-(*N*'-isopropylidene-hydrazino)-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid (SQ 20009),

4-amino-6-methyl-1-*n*-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine

Ethylic ester of 4-Amino-1-ethyl-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid (desbutyl tracacolate),

4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxamide,

Ethylic ester of 1-ethyl-6-methyl-4-methylamino-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

Ethylic ester of 4-amino-6-methyl-1-propyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

Ethyl ester of 1-ethyl-4-ethylamino-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

Ethyl ester of 4-amino-1-butyl-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

5-(4-amino-pyrazolo[3,4-*b*]pyridin-1-yl)-2-hydroxymethyl-tetrahydro-furan-3-ol,
allyl ester of 1-allyl-4-amino-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-amino-6-methyl-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethyl ester of 4-amino-1-ethyl-3,6-dimethyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethyl ester of 4-dimethylamino-1-ethyl-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethyl ester of 1-ethyl-6-methyl-4-propylamino-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethyl ester of 4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethylic ester of 4-amino-6-methyl-1-pent-4-ynyl-1H-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-amino-1-but-3-enyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-allylamide,

4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-isopropylamide,

4-amino-1-pentyl-*N*-*n*-propyl-1H-pyrazolo-[3,4-*b*]pyridine-5-carboxamide,

allylic ester of 4-amino-1-butyl-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethylic ester of 4-amino-6-methyl-1-pent-3-ynyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-prop-2-ynylamide

allylic ester of 4-amino-1-(3-methyl-butyl)-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-amino-1-pentyl-1H-pyrazolo[3,4-*b*]pyridine-5-*N*-(2-propenyl)carboxamide,

allylic ester of 4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-butylamide,

allylic ester of 4-amino-1-but-3-ynyl-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

allylic ester of 4-amino-1-but-3-enyl-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-amino-6-methyl-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-allylamide,

allylic ester of 4-amino-6-methyl-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

allylic ester of 4-amino-6-methyl-1-(3-methyl-butyl)-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

isobutylic ester of 4-amino-6-methyl-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-amino-6-methyl-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-butylamide,

allylic ester of 4-amino-6-methyl-1-(3-methyl-but-2-enyl)-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-cyclopropylamide,

ethyl 4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-hydroxamate,

prop-2-ynyl ester of 4-amino-6-methyl-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

allylic ester of 4-amino-6-methyl-1-pent-4-ynyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

allylic ester of 4-amino-6-methyl-1-pent-4-enyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-amino-1-pent-3-ynyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-propylamide,

4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-cyclopropylmethyl-amide,

2-methyl-allylic ester of 4-amino-6-methyl-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-Amino-1-pent-3-ynyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-allylamide (ICI 190,622),

4-amino-1-pent-4-ynyl-N-2-propenyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxamide,

4-amino-1-pent-3-ynyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-prop-2-ynylamide,

4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-but-2-ynylamide,

allylic ester of 4-amino-6-methyl-1-pent-3-ynyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

allylic ester of 4-amino-1-(2-cyclopropyl-ethyl)-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

allylic ester of 4-amino-1-hex-5-ynyl-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-amino-1-pent-3-ynyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-cyclopropylmethyl-amide,

but-3-enylic ester of 4-amino-6-methyl-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

cyclopropylmethylic ester of 4-amino-6-methyl-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-butylamino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-allylamide,

2-cyclopropyl-ethylic ester of 4-amino-6-methyl-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

cyclopropylmethylic ester of 4-amino-6-methyl-1-pent-3-ynyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

cyclopropylmethylic ester of 4-amino-6-methyl-1-pent-4-ynyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethylic ester of 4-amino-1-benzyl-6-methyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-benzylamide,

4-amino-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-phenylamide,

benzylic ester of 4-amino-6-methyl-1-pentyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-Azido-1- β -D-ribofuranosylpyrazolo[3,4-*b*]pyridine,

1-pent-3-ynyl-N-2-propenyl-4-propionamido-1H-pyrazolo[3,4-*b*]pyridine-5-carboxamide,

2-(4-amino-pyrazolo[3,4-*b*]pyridin-1-yl)-5-hydroxymethyl-tetrahydro-furan-3,4-diol,

2-(6-methyl-1H-pyrazolo[3,4-*b*]pyridin-4-ylamino)-ethanol,

3-(6-methyl-1H-pyrazolo[3,4-*b*]pyridin-4-ylamino)-propan-1-ol,

propylic ester of 3-(6-methyl-1H-pyrazolo[3,4-*b*]pyridin-4-ylamino)-acetic acid,

ethylic ester of 2-(6-methyl-1H-pyrazolo[3,4-*b*]pyridin-4-ylamino)-propionic acid,

ethylic ester of 2-(6-methyl-1H-pyrazolo[3,4-*b*]pyridin-4-ylamino)-pentanoic acid,

ethylic ester of 2-(6-methyl-1H-pyrazolo[3,4-*b*]pyridin-4-ylamino)-benzoic acid,

propylic ester of 3-(6-methyl-1H-pyrazolo[3,4-*b*]pyridin-4-ylamino)-pentanoic acid,

N-benzylidene-N-(3-methyl-1-phenyl-1H-pyrazolo[3,4-*b*]pyridin-4-yl)-hydrazine,

N-furan-2-ylmethylene-*N*-(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-hydrazine,

N-(4-fluoro-benzylidene)-*N*-(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-
hydrazine,

N-(3-furan-2-yl-allylidene)-*N*-(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-
hydrazine,

N-(4-methoxy-benzylidene)-*N*-(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-
hydrazine,

4-[(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-hydrazonomethyl]-benzonitrile,

N-benzo[1,3]dioxol-5-ylmethylene-*N*-(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-
hydrazine,

N-(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-*N*-(4-nitro-benzylidene)-hydrazine,

N-(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-*N*-(2-nitro-benzylidene)-hydrazine,

N-(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-*N*-(4-trifluoromethyl-benzylidene)-
hydrazine,

N-(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-*N*-(5-nitro-furan-2-ylmethylene)-hydrazine,

N-(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-*N*-(2-trifluoromethyl-benzylidene)-hydrazine,

N-(3-methyl-1-phenyl-1*H*-pyrazolo[3,4-*b*]pyridin-4-yl)-*N*-(6-nitro-benzo[1,3]dioxol-5-ylmethylene)-hydrazine,

4-(3-chloro-4-methoxy-benzylamino)-1-ethyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

4-(3-chloro-4-methoxy-benzylamino)-1-ethyl-1*H*-pyrazolo[3,4-*b*]pyridine-5- (pyridin-4-ylmethyl)-amide,

4-(3-chloro-4-methoxy-benzylamino)-1-ethyl-1*H*-pyrazolo[3,4-*b*]pyridine-5- (tetrahydro-furan-2-ylmethyl)-amide,

4-(3-chloro-4-methoxy-benzylamino)-1-ethyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-(5-hydroxypentyl)-amide,

4-(3-chloro-4-methoxy-benzylamino)-1-ethyl-1*H*-pyrazolo[3,4-*b*]pyridine-5-[3-(2-oxo-pyrrolidine-1-yl)-propyl]-amide,

ethylic ester of 4-*tert*-butylamino-1-(2-chloro-2-phenyl-ethyl)-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethylic ester of 1-(2-chloro-2-phenyl-ethyl)-4-cyclopropylamino-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethylic ester of 1-(2-chloro-2-phenyl-ethyl)-4-propylamino-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethylic ester of 1-(2-chloro-2-phenyl-ethyl)-4-phenylamino-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethylic ester of 4-butylamino-1-(2-chloro-2-phenyl-ethyl)-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethylic ester of 1-(2-chloro-2-phenyl-ethyl)-4-(2-ethoxy-ethylamino)-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid,

ethylic ester of 4-benzylamino-1-(2-chloro-2-phenyl-ethyl)-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid, and

ethylic ester of 1-(2-chloro-2-phenyl-ethyl)-4-phenethylamino-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acid.

11. (New) The method of claim 7, for treating cognitive deficit in a patient having a neurodegenerative disease selected from Alzheimer's disease, vascular dementia, Parkinson's disease and Huntington's chorea.

12. (New) The method of claim 7, wherein the composition is administered orally or systemically.

13. (New) A method of improving perceptive cognition in a patient having a neurodegenerative disease, the method comprising administering to the patient an effective amount of etazolate.

14. (New) The method of claim 13, wherein the patient has an Alzheimer's disease or vascular dementia.